



A bibliography of Fynbos ecology: 2nd edition

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SOUTH AFRICAN NATIONAL SCIENTIFIC PROGRAMMES REPORT NO

166

DECEMBER 1989

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INTRODUCTION

The first edition of a bibliography of fynbos ecology was produced in 1981 and comprised 814 references to work completed or commenced prior to the initiation of the Fynbos Biome Project. It is appropriate that this second edition of the bibliography should appear in the last year of the Fynbos Biome Project, containing 2009 entries. Although some new entries predate the first edition, many have been published since 1981, and represent the published works of the Fynbos Biome Project. Research results from the Project will continue to be published for the next few years, and this bibliography may well miss the most intensive episode of publication. However, this second edition is the outcome of the consolidation of fynbos-related publications within the library of the Jonkershoek Forestry Research Centre, and is more a documentation of this process than a final record of the products of the Fynbos Biome Project.

As in the first edition, this bibliography attempts to include all papers published in the open literature, theses and departmental reports. Undergraduate and honours project reports have been omitted. Not all taxonomic works dealing with fynbos taxa have been included, but an attempt was made to incorporate those dealing with more important or endemic fynbos taxa.

The Jonkershoek Forestry Research Centre library 'pamphlet' collection is currently entered into a NOTEBOOK data base. All entries in this bibliography are included in the data base, and are identified by the keyword 'fynbos'. Some pamphlet collection items comprise the title page of a thesis, book or chapter only, while the complete document is housed elsewhere in the library. Others comprise an entry in the data base only, with the keyword 'nocopy', indicating that the reference is not housed in the pamphlet collection. These entries are included to maintain a complete reference system. Although attempts will be made to complete the collection of all known references, some may remain in the 'nocopy' category.

All entries have been keyworded, following the system used in the first edition fairly closely. This is a system of broad categories, and some users may be disappointed by the lack of specificity. The object of the broad keyword terms is provide uniformity in keywording, and to maximize the likelihood of location of all publications in a field, in a system with manual retrieval. More specific terms have been used to keyword the items within the library data base, and it has a far less uniform system, owing to the time over which the collection accumulated, and the multiplicity of keyworders. There are numerous options in electronic retrieval systems to overcome such problems and use of this bibliography in conjunction with the data base should identify the full range of keywords for searching.

Production from scratch, of a bibliography such as this, is tedious in the extreme. This production attempts to establish a basis for less painful updating of bibliography in the future, based on acquisitions to the Jonkershoek library, which may be added to an existing word processor file.

The completeness of the collection at Jonkershoek is a function of the communal efforts of the fynbos research community. Many reprints and theses have been contributed to the library in response to appeals for copies of

all fynbos publications. If this can be maintained, then the collection will continue to have a value to the community. This bibliography, beyond recording what is housed in the collection, will identify work that has not been incorporated. It will be greatly appreciated if authors of such work, or their colleagues in their absence, could contribute reprints to fill such gaps.

ACKNOWLEDGEMENTS

Sincere thanks are expressed to Rhoda Vos who entered nearly 6 000 records into the Jonkershoek library NOTEBOOK data base so that this update could be made. Thanks are also due to Kevin Higgins and Gerard Mostert who assisted with cross-checking and editing.

We thank the many members of the Fynbos Biome community who contributed material, and David Le Maitre, Dave Richardson and Brian van Wilgen for helping to identify gaps in the collection.

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KEYWORD INDEX

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AVIFAUNA COMMUNITY

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1980	1984	1986	1989	1990	1991							

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424	425	426	431	441	582	583	592	597	665	703	732	938
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1285	1289	1290	1291	1292	1297	1387	1388	1423	1424	1454	1459	1461
1501	1535	1544	1547	1550	1558	1562	1564	1572	1576	1577	1582	1600
1749	1750	1751	1854	1870	1871	1873	1962	1969	1994	2005		

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755	1158	1159	1170	1171	1172	1173	1174	1179	1267	1446	1499	1518
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16	53	59	62	64	73	91	139	228	248	259	260	276
283	289	317	326	327	328	342	358	367	444	447	459	460
461	462	490	495	498	511	514	516	550	551	557	564	601
602	603	671	719	730	741	758	759	760	765	818	819	820
823	825	843	850	861	883	886	889	897	901	906	922	935
953	956	959	1021	1029	1030	1093	1097	1098	1104	1109	1134	1135
1136	1152	1153	1169	1179	1180	1229	1262	1263	1264	1298	1316	1319
1322	1328	1341	1342	1361	1364	1421	1427	1462	1463	1514	1515	1516
1517	1518	1601	1619	1639	1640	1667	1668	1669	1670	1672	1673	1674
1722	1728	1742	1743	1744	1746	1747	1748	1785	1790	1793	1794	1795
1814	1816	1821	1822	1829	1849	1861	1865	1866	1891	1901	1903	1904
1929	1931	1970	1991									

CONSERVATION

1	9	10	21	30	47	48	49	51	55	57	72	74
83	84	85	86	97	115	116	120	122	133	136	165	168
170	172	173	197	201	202	236	260	262	275	298	300	305
306	315	318	346	358	359	360	362	363	365	369	373	398
402	447	448	451	458	466	467	533	536	552	567	581	587
589	590	591	604	609	610	611	614	631	654	656	657	660
672	673	675	676	677	678	679	680	681	682	686	687	689
690	691	692	693	711	724	726	727	728	729	730	756	771
775	799	800	821	824	836	842	860	879	890	893	896	898
902	903	908	917	964	979	1037	1042	1048	1049	1050	1051	1053
1066	1082	1087	1108	1111	1131	1132	1213	1214	1224	1226	1227	1254
1266	1286	1287	1293	1331	1337	1338	1357	1392	1437	1455	1457	1481
1482	1489	1491	1494	1527	1528	1536	1538	1542	1543	1561	1568	1579

1580	1581	1590	1592	1593	1608	1609	1620	1643	1666	1672	1675	1676
1678	1680	1682	1683	1685	1686	1687	1690	1693	1701	1704	1708	1709
1710	1711	1732	1735	1755	1756	1765	1767	1768	1771	1774	1777	1810
1830	1859	1864	1870	1921	1932	1940	1954	1956	1957	1964	1976	1980
1984	2001	2002	2003	2004								

DEMOGRAPHY

100	138	144	145	146	147	153	154	155	156	171	173	197
210	213	384	427	429	585	624	683	710	723	734	737	742
746	748	753	766	798	799	803	805	806	822	863	881	890
894	895	904	905	907	911	933	935	940	941	942	943	945
946	948	949	950	951	952	964	1026	1083	1084	1085	1087	1088
1089	1090	1092	1096	1123	1160	1162	1171	1173	1189	1271	1294	1295
1329	1350	1352	1353	1354	1406	1408	1429	1456	1557	1562	1563	1607
1773	1843	1890										

DUNES

61	175	184	202	373	398	399	400	401	631	731	842	879
1148												

ESTUARIES

53	83	204	322	323	324	325	452	730	876			
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EVOLUTION

101	153	207	310	314	319	371	384	388	499	826	863	865
935	966	1011	1013	1014	1031	1158	1159	1161	1168	1253	1374	1446
1466	1510	1511	1566	1653	1809	2006						

FAUNA

66	67	68	69	84	118	170	209					
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FIRE ECOLOGY

3	14	47	85	89	90	100	110	121	123	124	138	144
145	146	147	151	156	160	162	163	168	197	210	212	214
256	259	299	302	356	358	360	363	379	384	387	393	400
405	447	465	542	545	546	558	568	593	595	624	694	710
725	735	740	742	749	754	764	766	798	799	801	803	805
806	818	819	828	843	887	888	894	895	896	899	900	901
903	904	905	907	909	911	913	933	935	940	941	942	943
944	945	947	948	949	950	951	952	958	959	962	965	968
986	988	1016	1039	1044	1083	1085	1087	1088	1089	1092	1093	1106
1111	1116	1140	1142	1155	1182	1208	1214	1218	1224	1225	1241	1296
1314	1336	1337	1351	1352	1353	1354	1357	1406	1415	1417	1418	1435
1476	1492	1494	1496	1507	1520	1529	1567	1589	1590	1629	1652	1658
1659	1684	1691	1693	1699	1701	1714	1740	1741	1772	1773	1775	1779
1787	1789	1790	1797	1810	1811	1812	1813	1814	1815	1816	1817	1818
1819	1820	1821	1822	1823	1824	1825	1826	1827	1828	1829	1831	1832
1833	1834	1837	1838	1839	1840	1841	1843	1846	1847	1851	1890	1908
1915	1916	1919	1921	1922	1924	1925	1926	1927	1928	1929	1930	1935
1937	1938	1939	2007									

FISH

83	306	609	610	611	699	1527	1528					
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INVASIVE ANIMALS

117	253	272	507	517	699	858	1022	1064	1067	1068	1176	1527
1528	1541	1604	1769									

INVASIVE INVERTEBRATES

154	155	455	456	457	619							
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INVASIVE PLANTS

9	10	21	48	57	65	102	103	183	185	191	193	211
214	219	273	354	385	397	427	430	431	446	453	454	458
507	517	519	520	521	522	523	524	525	526	527	528	529
530	531	541	543	548	556	584	592	595	605	606	607	608
623	628	651	653	670	674	687	688	697	688	697	698	738
739	744	745	746	747	763	764	782	788	789	794	795	851
852	853	854	855	856	858	860	862	864	867	868	869	870
879	892	910	915	964	979	1017	1041	1046	1052	1055	1056	1058
1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1133	1144
1156	1185	1186	1187	1188	1189	1190	1191	1195	1214	1233	1235	1236
1237	1238	1244	1265	1269	1272	1723	1274	1275	1276	1277	1278	1279
1300	1333	1348	1349	1350	1351	1352	1353	1354	1401	1402	1403	1404
1405	1406	1407	1408	1411	1412	1414	1415	1417	1448	1449	1450	1451
1452	1453	1473	1474	1482	1519	1539	1540	1573	1593	1610	1612	1627
1643	1682	1683	1689	1694	1695	1696	1699	1700	1704	1708	1711	1715
1716	1739	7140	1741	1760	1761	1778	1832	1840	1842	1869	1874	1898
1900	1902	1932	1950	2001	2002	2003	2004					

INVERTEBRATE ECOLOGY

149	153	154	155	213	218	282	316	322	323	324	336	337
338	339	340	341	343	344	345	368	371	372	436	439	440
455	456	457	542	544	545	573	616	618	619	620	621	622
629	701	832	833	834	875	1028	1071	1081	1105	1171	1173	1243
1258	1259	1260	1261	1340	1377	1380	1382	1496	1560	1595	1596	1604
1605	1606	1607	1723	1724	1725	1738	1912	1913	2006			

LAND USE

1	42	53	54	74	86	93	97	217	227	270	271	346
366	402	442	443	466	533	547	613	614	627	729	742	743
812	813	814	815	816	817	821	884	898	902	953	956	957
958	1000	1027	1131	1132	1224	1226	1227	1269	1298	1315	1317	1320
1331	1332	1338	1355	1392	1472	1497	1526	1612	1614	1615	1616	1617
1629	1641	1642	1669	1672	1673	1721	1791	1797	1836	2008		

LEGISLATION

49	219	305	691	756	1131							
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LIMNOLOGY

204	306	322	323	324	325	343	344	345	432	433	434	435
436	437	438	448	450	451	452	588	589	590	591	609	610
611	612	693	700	701	702	751	832	833	834	835	836	837
838	839	876	1419	1420	1525	1634	1635	1636	1638	1879	1896	1900

MANAGEMENT

1	3	9	10	30	42	47	48	83	84	85	93	1 1 0
115	116	161	193	271	300	359	448	466	467	547	548	5 5 6
561	579	584	588	606	607	608	613	729	730	733	744	7 4 6
749	794	795	801	804	814	842	853	854	855	860	879	8 9 2
896	908	917	939	959	1000	1017	1052	1060	1062	1065	1082	1090
1139	1143	1214	1224	1226	1227	1244	1266	1269	1274	1275	1277	1296
1300	1331	1332	1337	1338	1351	1355	1384	1403	1405	1413	1415	1428
1448	1449	1519	1536	1568	1579	1612	1643	1682	1683	1694	1696	1721
1739	1740	1741	1778	1786	1788	1797	1810	1811	1818	1834	1836	1841
1862	1866	1919	1923	1924	1926	1927	1928	1930	1940	2001	2002	2003
2004												

MAPPING

166	167	366	767	768	770	772	773	776	777	830	1209	1210
1211	1212	1213	1219	1363	1625	1626	1712	2008				

MODELLING

912	1089	1181	1182	1184	1193	1218	1299	1412	1651	1819	1820	1824
1834	1839											

NUTRIENTS

45	227	255	256	257	258	294	296	347	348	379	389	3 9 0
394	449	546	554	663	695	738	750	752	757	787	790	7 9 1
792	793	817	815	816	817	880	913	923	924	925	930	9 3 1
932	934	936	998	999	1027	1034	1035	1038	1039	1040	1041	1043
1044	1115	1121	1122	1138	1147	1151	1170	1171	1172	1192	1193	1195
1196	1197	1198	1199	1200	1202	1221	1368	1375	1419	1420	1453	1464
1520	1521	1525	1602	1603	1632	1634	1635	1636	1641	1642	1647	1648
1649	1650	1651	1653	1654	1655	1656	1657	1658	1659	1660	1662	1770
1799	1800	1801	1837	1838	1847	1851	1863	1887	1888	1889	1893	1894
1895	1896	1910	2000									

PALAEOECOLOGY

11	35	39	66	67	68	69	70	71	101	114	125	1 2 6
207	274	281	326	327	328	329	330	331	332	333	334	3 3 5
367	382	386	463	478	479	480	481	482	483	484	485	4 8 6
487	488	489	490	491	492	493	494	495	496	497	498	4 9 9
500	501	502	503	504	505	506	507	508	509	510	511	5 1 2
513	514	515	516	538	539	540	552	563	671	684	685	7 1 2
713	714	715	716	717	718	719	720	721	722	736	826	8 4 4
845	846	847	848	849	850	883	920	935	961	966	970	9 7 1
976	982	984	985	1003	1021	1101	1114	1117	1205	1240	1247	1310
1315	1316	1317	1318	1319	1320	1321	1322	1323	1324	1325	1326	1335
1374	1427	1462	1469	1493	1504	1505	1506	1508	1509	1510	1511	1533
1588	1591	1594	1613	1614	1615	1616	1617	1618	1667	1722	1726	1727
1809	1856	1857	1858	1988	1991							

PEDOLOGY

16	107	108	109	174	247	258	289	419	447	461	555	5 6 9
570	571	574	599	600	704	712	730	757	787	808	880	8 8 9
901	924	925	926	927	928	929	953	1043	1079	1080	1115	1150
1151	1170	1179	1192	1268	1336	1497	1498	1520	1602	1603	1624	1625
1626	1667	1684	1720	1733	1758	1764	1796					

PHENOLOGY

139	320	351	652	661	662	667	734	869	890	897	944	9 5 4
1096	1155	1181	1183	1190	1228	1231	1265	1343	1344	1345	1346	1347
1369	1395	1410	1627	1628	1632	1660	1762	1854	1892	1939	1962	1992

PHYSIOGRAPHY

1901

PHYTOGEOGRAPHY

2	4	5	6	7	8	11	13	15	16	17	18	1 9
20	22	23	24	25	26	27	28	29	31	32	33	3 4
35	36	37	38	39	40	41	55	75	76	77	78	7 9
80	81	82	94	95	98	99	101	112	113	114	134	1 3 5
136	140	143	175	176	177	178	179	180	181	182	184	1 8 7
188	189	190	192	194	195	196	198	199	200	206	261	2 8 5
289	290	291	292	293	295	296	297	298	301	302	303	3 1 1
318	331	355	361	365	374	375	378	379	380	381	383	3 9 1
392	395	396	397	398	399	400	406	407	408	409	410	4 1 1
412	413	414	415	416	417	418	420	421	468	469	470	4 7 1
472	473	474	475	476	477	549	559	560	562	563	566	5 6 7
575	580	617	626	632	633	634	635	636	637	638	639	6 4 0
641	642	643	644	645	646	647	648	649	650	659	661	6 6 2
669	670	677	681	705	706	763	769	781	786	802	811	8 2 6
831	857	861	866	877	878	889	901	906	916	921	966	9 6 9
970	971	972	973	974	975	976	977	978	980	981	982	9 8 3
984	985	986	988	991	992	993	994	995	996	997	1001	1002
1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1036	1040
1047	1099	1100	1101	1102	1103	1104	1106	1107	1109	1110	1112	1125
1126	1127	1128	1129	1137	1138	1140	1142	1148	1154	1164	1166	1175
1206	1215	1216	1220	1222	1223	1255	1256	1267	1284	1301	1302	1303
1304	1305	1306	1307	1308	1327	1356	1358	1359	1362	1363	1367	1369
1370	1374	1386	1389	1391	1395	1399	1401	1407	1421	1432	1434	1435
1436	1438	1439	1440	1441	1442	1443	1444	1445	1447	1452	1465	1466
1475	1478	1479	1483	1484	1485	1486	1487	1488	1495	1499	1510	1511
1512	1531	1532	1578	1590	1591	1601	1621	1630	1631	1638	1644	1645
1646	1661	1663	1664	1671	1677	1679	1681	1684	1685	1686	1687	1688
1691	1692	1701	1702	1703	1705	1706	1707	1708	1709	1710	1711	1712
1713	1717	1718	1731	1734	1735	1736	1745	1765	1766	1767	1768	1772
1781	1782	1783	1784	1809	1835	1844	1855	1875	1876	1877	1878	1891
1897	1899	1906	1907	1908	1911	1939	1941	1942	1943	1944	1945	1946
1947	1948											

PLANT ANATOMY

169	307	308	309	310	312	313	314	696	735	796	797	9 1 9
1221	1729	1780	1805	1860								

PLANT AUTECOLOGY

47	50	72	100	138	144	145	146	147	156	171	173	197
210	370	557	605	697	698	710	737	753	798	803	804	805
806	822	887	894	907	909	911	922	923	933	940	941	942
943	945	948	949	950	951	952	963	964	979	990	1026	1049
1050	1051	1083	1084	1085	1086	1087	1088	1089	1090	1091	1096	1123
1160	1164	1166	1175	1185	1186	1187	1188	1189	1190	1191	1217	1271
1294	1334	1348	1349	1350	1351	1352	1353	1354	1394	1396	1398	1404
1405	1406	1407	1414	1422	1530	1573	1584	1585	1660	1699	1731	1773
1782	1792	1843	1876	1890	1909							

PLANT COMMUNITY

2	7	8	13	14	15	28	38	40	55	140	141	142
143	174	176	177	178	179	181	182	184	187	188	189	190
192	194	195	196	198	199	200	215	285	286	287	288	289
290	291	292	293	295	296	297	298	300	301	302	303	320
321	355	361	373	374	375	376	377	378	379	381	383	390
391	392	395	396	397	399	400	401	445	547	548	559	560
562	563	566	575	579	587	614	626	627	661	662	731	734
740	781	786	802	816	817	831	887	889	890	896	897	901
903	904	905	907	916	921	937	940	941	942	944	945	947
948	950	951	962	965	968	989	1015	1019	1047	1099	1100	1101
1102	1103	1107	1110	1113	1114	1115	1116	1125	1126	1127	1128	1129
1137	1138	1139	1140	1142	1148	1155	1206	1208	1215	1216	1255	1267
1308	1336	1358	1369	1393	1397	1411	1416	1421	1445	1470	1471	1478
1479	1499	1531	1532	1622	1630	1638	1661	1677	1679	1681	1684	1685
1686	1687	1688	1690	1691	1692	1697	1702	1703	1705	1706	1707	1708
1709	1710	1711	1713	1717	1718	1734	1736	1765	1766	1767	1768	1772
1775	1789	1809	1811	1813	1815	1833	1835	1855	1874	1905	1907	1908
1914	1922											

PLANT COMMUNITY STRUCTURE

12	16	190	215	290	292	296	297	320	388	390	399	445
888	891	894	901	905	944	948	1015	1115	1180	1220	1312	1313
1367	1470	1471	1472	1701	1718	1797	1840	1905	1910			

PLANT DISEASES

105	871	1880	1881	1882	1883	1884	1885					
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PLANT FORM

152	294	303	389	418	735	766	870	1162	1168	1169	1177	1221
1312	1313	1729										

PLANT PHYSIOLOGY

43	73	130	255	256	264	265	266	267	268	269	317	320
380	394	585	630	652	695	696	738	751	752	765	783	787
790	791	792	793	914	930	931	932	934	936	998	999	1029
1039	1098	1177	1178	1180	1181	1203	1232	1265	1299	1410	1419	1420
1450	1451	1453	1470	1471	1472	1474	1495	1520	1647	1648	1650	1651
1653	1655	1656	1660	1662	1729	1730	1762	1763	1780	1785	1798	1799
1800	1801	1802	1803	1804	1805	1806	1807	1808	1887	1888	1889	1890
1892	1893	1894	1895	1914								

PLANT PRODUCTION

738 751 752 1420 1470 1472 1474 1762 1776

PLANTATIONS

43 92 115 158 397 467 534 535 541 545 808 892 1341
1342 1411 1416 1477 1538 1786 1845 1846 1852 1861 1863 1916 1923

POLLINATION

216 282 337 350 353 394 598 620 621 683 737 881 933
935 1028 1105 1123 1243 1376 1377 1378 1379 1381 1382 1383 1384
1385 1387 1388 1390 1393 1396 1397 1398 1422 1446 1508 1535 1566
1584 1585 1912 1913 1933 1934 2006

RADIATION

459 564

RAINFALL

132 248 460 462 564 741 825 843 1097 1153 1169 1229 1262
1263 1264 1341 1342 1361 1619 1623 11639 1640 1742 1743 1744
1746 1747 1748 1793 1853 1867 1929 1931

RECREATION

47 466 1143 1224 1226 1227 1266

REMOTE SENSING

166 167 664 767 768 770 772 773 776 777 937 1209 1219
1282 1812 2008

RESEARCH REVIEW

356 357

RESTORATION ECOLOGY

1428

RIPARIAN ZONES

87 88 161 1480

RIVERS

306 699 1528

ROOTS

45 46 735 738 739 787 793 930 931 932 934 936 1035
1194 1201 1530 1662

SEED BIOLOGY

102 128 145 146 147 148 149 153 154 155 156 171 210
213 220 221 222 223 224 225 263 264 265 266 267 268
269 336 338 339 430 518 519 572 576 577 585 622 628
744 745 746 747 748 782 789 796 797 798 803 805 806
943 946 949 963 967 1088 1133 1171 1173 1189 1195 1203 1279
1349 1354 1378 1379 1394 1414 1417 1429 1570 1573 1604 1605 1606
1607 1608 1609 1779 1780 1798 1802 1803 1804 1805 1806 1807 1808
1843 1898

SEED DISPERSAL

148	149	153	154	155	213	857	858	859	861	862	863	864
865	867	868	869	870	935	1085	1156	1171	1173	1189	1256	1604
1605	1606	1607	1842									

SOIL EROSION

93	158	1046	1862									
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STREAMFLOW

157	160	162	163	465	534	535	725	885	918	1016	1360	1476
1480	1786	1789	1790	1791	1794	1845	1852	1915	1916	1917	1918	1919
1920	1924	1928										

SUCCESSION

3	12	14	100	138	146	147	156	210	212	299	302	360
400	401	558	566	579	593	624	731	740	764	798	799	803
804	887	888	890	894	907	909	940	941	942	945	947	948
950	962	965	968	1113	1115	1116	1121	1122	1138	1155	1182	1218
1225	1294	1336	1415	1418	1567	1679	1684	1691	1706	1757	1759	1797
1811	1813	1815	1843	1910								

TAXONOMY

17	18	19	20	22	23	26	27	29	31	33	34	35
41	75	76	77	78	79	80	81	82	94	95	206	311
312	313	314	406	407	408	409	410	411	412	413	414	415
416	417	418	419	420	421	468	469	470	471	472	473	474
475	476	477	580	632	633	634	637	638	639	640	642	643
644	645	646	647	648	649	655	705	706	811	877	972	973
974	977	986	991	992	993	994	995	996	997	1001	1002	1004
1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1070	1161	1248
1252	1280	1281	1284	1301	1302	1304	1305	1306	1327	1330	1356	1359
1431	1432	1433	1434	1435	1436	1438	1439	1440	1441	1442	1443	1444
1447	1483	1484	1485	1486	1487	1488	1595	1596	1621	1644	1645	1646
1663	1664	1781	1783	1784	1844	1860	1876	1877	1939	1941	1942	1943
1944	1945	1946	1947	1948	1959	1960	1961	1967	1977	1978	1979	

TECHNIQUES

109	141	142	159	176	209	283	286	287	288	321	376	377
459	733	767	784	785	828	829	891	1015	1029	1043	1071	1216
1328	1330	1534	1619	1649	1719	1776	1777	1848	1849	1865	1866	1867
1905	1908	1931	1936									

THREATENED ANIMALS

1580	1581											
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THREATENED PLANTS

50	672	673	675	678	679	680	681	682	686	687	689	690
691	692	728	1082	1083	1087	1088	1089	1090	1108	1166	1217	1254
1437	1608	1609	1620	1676	1774	1812	1830	1949				

UTILIZATION

72	129	130	144	226	247	275	317	364	547	730	1044	1124
1241	1258	1259	1260	1261	1472	1672	1721	1732	1735	1770	1791	1876
1909												

WATER QUALITY

93	343	588	589	590	591	693	750	1634	1635	1636	1846	1847
1848	1850	1851	1896									

WATER RELATIONS

43	73	87	88	89	90	109	317	551	652	695	735	783
825	914	953	1029	1030	1098	1109	1164	1177	1178	1180	1183	1229
1231	1232	1299	1341	1342	1410	1522	1523	1524	1623	1632	1637	1653
1729	1730	1785										

WILD FLOWERS

49	74	226	443	761	762	1044	1124	1258	1259	1260	1261	1392
1394	1836	1876	1882	1883	1884							

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52	58	63	66	97	104	119	122	125	127	150	165	203
205	208	230	236	237	238	239	240	241	242	249	250	251
254	280	304	316	322	323	324	372	404	428	573	582	583
610	611	654	655	666	667	701	703	724	778	809	810	872
873	874	960	1019	1024	1033	1054	1058	1069	1070	1073	1075	1076
1077	1119	1120	1145	1146	1157	1234	1245	1246	1247	1248	1249	1251
1252	1253	1254	1257	1270	1288	1365	1371	1372	1409	1425	1426	1455
1458	1460	1500	1502	1503	1543	1545	1546	1548	1574	1575	1578	1595
1596	1597	1598	1599	1611	1752	1753	1754	1755	1756	1886	1951	1952
1953	1955	1956	1957	1958	1959	1960	1961	1963	1964	1965	1966	1967
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